

## ABSTRACT

Method of determining the position of a mobile station in a mobile telecommunication network

The present invention concerns a method of determining the position of a mobile station in a mobile telecommunication network, the said network including a plurality of base stations designed to adopt at least on the one hand a state corresponding to periods of transmission of signals useful to the determination of the said position, the said mobile station, on reception of the said useful signals, making measurements of quantities of the said useful signals which are characteristic for using a position determination method and on the other hand a state corresponding to periods of silence during which no signal is transmitted.

According to the present invention, the said method consists of providing means so that the said periods of transmission and the said periods of silence are arranged in cycles including at least one period of silence, the cycle allocated to a base station being identical to the cycle allocated to any base station adjacent to it, but is offset from it in time.

The present invention also concerns a network designed to implement such a method.

Fig 4a